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United States Patent [19]

Pan

[56]

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[54]	METHOD AND APPARATUS FOR
	CONTROLLING CURSOR MOVEMENT

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			345/7; 351/210
[58]	Field of Sea	rch	340/707, 708, 709, 706,

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U.S. PATENT DOCUMENTS

4,582,403 4/1986 4,735,498 4/1988	Graf	351/210 351/210
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FOREIGN PATENT DOCUMENTS

8601963 3/1986 Australia 351/210

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ABSTRACT [57]

A microprocessor controlled infrared-light based system that indicates eye and head position in real-time, so as to enable a computer user to control cursor movement on a computer display by moving his or her eyes or head. By activating the system using a designated key on a standard keyboard or by using a foot operated switch, the user can, by moving the eyes and head, position the cursor at any point on the display in the same manner as the conventional mouse, thereby allowing use of presently available software and hardware.

9 Claims, 8 Drawing Sheets

